## WHAT IS CLAIMED IS:

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- 1. A processing method for image encryption, which is to add encryption to a main film, including the following procedures:
- a) at least one main film and at least one subsidiary film are obtained;
- b) when the at least one main film and the at least one subsidiary film are playing, the video signals will be synchronously inputted into the composite video-signal processing unit for processing composite video signals;
- c) when the video signals of the at least one main film and the at least one subsidiary film are executing the composite video signal process, a markup signal is added into each field of the main film synchronously, and then an encrypted composite film is completed.
- 2. The processing method for image encryption as claimed in claim 1, wherein the composite video-signal processing unit is to synthesize the video signals of the at least one main film and the at least one subsidiary film by overlapping the video signals.
- 3. The processing method for image encryption as claimed in claim 1, wherein the markup signal is a synchronous signal.
  - 4. The processing method for image encryption as claimed in claim 3, wherein the synchronous signal is composed of a horizontal synchronous signal and a vertical synchronous
- 25 signal.

- 5. The processing method for image encryption as claimed in claim 4, wherein the pattern of markup signal is located by the horizontal synchronous signal and the vertical synchronous signal.
- 6. An image decryption device, which is to perform a process of decryption for an encrypted composite film playing in a playing device, wherein the image decryption device includes: an encoding unit, for executing an encoding process for the encrypted image;
- a memory unit, for storing digital signals that have been done with encoding;
  - a detection control unit, for detecting the markup signal and controlling the reading and writing of the memory so as to determine whether data in the memory unit should be updated;
- 15 and
  - a decoding unit, for converting the digital image data stream outputted by the memory unit into an analog video signal output.
- 7. The image decryption device as claimed in claim 6, wherein the encoding unit is an analog/digital converter.
  - 8. The image decryption device as claimed in claim 6, wherein the memory unit is a dual-port memory.
  - 9. The image decryption device as claimed in claim 6, wherein the decoding unit is a digital/analog converter.
- 25 10. A processing method for image decryption, which is to

perform a process of decryption for an encrypted composite film that is playing in a playing device, wherein the processing method for image decryption includes:

a) the digital video signal output will be stored in the memory unit after an analog video signal in the encrypted composite film has been converted into a digital video signal output through the analog/digital converter;

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- b) the detection control unit will determine whether the data in the memory should be updated;
- 10 c) the data in the memory will be sequentially outputted to the digital/analog converter continuously so that the digital data stream can be converted into analog video signal output, and thus the viewer can watch the main film.
- 11. The processing method for image decryption as claimed in claim 10, wherein the procedures of determining whether the data inside the memory should be updated are listed as below: step one: the position of the markup signal is located by the horizontal synchronous signal and the vertical synchronous signal of an image;
- step two: each sample value of a sampling signal will be compared with that of another sampling signal in the position of markup signal;
  - step three: if a sample value is larger than a compared value, then the inner accumulator increases one;
- 25 step four: if the inner accumulator is larger than a preset value,

then the data in the memory should be updated; conversely, if the inner accumulator is smaller than the preset value, then the data should not be updated.